

**EV355228507**

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Umberger et al.

Confirmation No.:

Application No.:

Examiner:

Filing Date:

Group Art Unit:

Title: Improving Host I/O Performance and Availability of a Storage Array During Rebuild by  
Prioritizing I/O Requests

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before  
mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e)(1) or (2), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the  
pendency of this application, please charge any fees required or credit any overpayment to Deposit  
Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with  
copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s)  
believe(s) may be material to the examination of this application and for which there may be a duty to  
disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications  
and other foreign language information listed on PTO Form 1449, as presently understood by the  
individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the  
attached sheet, or where a foreign language patent is cited in a search report or other action by a  
foreign patent office in a counterpart foreign application, an English language version of the search  
report or action which indicates the degree of relevance found by the foreign office is listed on form PTO  
1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

*Express*  
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Typed Name: Laurie Morgan

Signature: Laurie Morgan

Respectfully submitted,

Umberger et al.

By AT Sponseller

Allan T. Sponseller

Attorney/Agent for Applicant(s)

Reg. No. **38,318**

Date: **09/22/2003**

Telephone No.: **(509) 324-9256**

**PATENT APPLICATION**

Sheet 1 of 1

FORM PTO-1449

**LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**10991300-3**

APPLICATION NO.

CONFIRMATION NO.

APPLICANT

**Umberger et al.**

FILING DATE

GROUP

**REFERENCE DESIGNATION****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	5,392,244	2/21/1995	Jacobson et al.	
	1B	6,516,425	02/2003	Belhadj et al.	
	1C	6,032,217	02/2000	Arnott	
	1D	5,941,993	08/1999	Tanaka et al.	
	1E	5,881,311	03/1999	Woods	
	1F	5,822,584	10/1998	Thompson et al.	
	1G				
	1H				
	1I				
	1J				
	1K				

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

**OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)**

	1Q	CHEN, et al.; RAID: High-Performance, REliable Secondary Storage, June 1994, ACM Computing Suveys, Vol. 26, pages 141-184
	1R	
	1S	

EXAMINER

DATE CONSIDERED